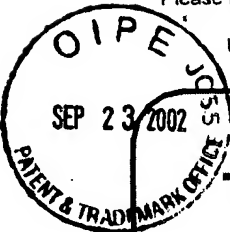


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(Modified) PTO/SB/21 (6-98)
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Application Number	10/003472
Filing Date	November 15, 2001
First Named Inventor	Steven A. Sundberg
Group Art Unit	1743
Examiner Name	Unassigned
Attorney Docket Number	01-054310US

Total Number of Pages in This Submission

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ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
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<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Additional Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	USPTO form 1449; Cited References; receipt acknowledgment postcard
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<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application	Authorization to Charge Deposit Account Please charge Deposit Account No. 50-0893 for any additional fees associated with this paper or during the pendency of this application, including any extensions of time for consideration of the documents enclosed.	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	Remarks	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Paul Littlepage, Reg. No. 48,581, Quine Intellectual Property Law Group, P.C.		
Signature			
Date	September 19, 2002		

CERTIFICATE OF MAILING

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Quine Intellectual Property Law Group, P.C.

By Amelia Groth
Amelia Groth

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TC 1700

Attorney Docket No. 01-054310US
Client Ref. No. 100/11710US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Steven A. Sundberg, *et al.*

Application No.: 10/003472

Filed: November 15, 2001

For: BINDING ASSAYS USING
MOLECULAR MELT CURVES

Examiner: Unassigned

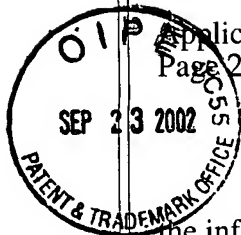
Art Unit: 1743

INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR § 1.97 and
§ 1.98

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The references cited on attached form PTO-1449 are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.



Application No.: 10/003472

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Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 50-0893. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

Paul Littlepage
Reg. No. 48,581

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Complete if Known

Application Number	10/003472
Filing Date	November 15, 2001
First Named Inventor	Steven A. Sundberg
Group Art Unit	1743
Examiner Name	Unassigned
Attorney Docket Number	01-054310US
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U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
	AA	5,271,724		Van Lintel	12-21-1993	
	AB	5,277,566		Augustin et al	01-11-1994	
	AC	5,375,979		Trah	12-27-1994	
	AD	5,800,690		Chow et al.	09-01-1998	
	AE	5,942,443		Parce et al.	08-24-1999	
	AF	5,965,410		Chow et al.	10-12-1999	
	AG	6,403,338		Kopf-Sill	06-11-2002	

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FOREIGN PATENT DOCUMENTS

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		Office	Number	Kind Code (if known)				
	AH	WO	00/43766	✓	Caliper Tech. Corp.	07-27-2000		
	AI	WO	00/45170	✓	Signature Bioscience, Inc.	02-01-2000		
	AJ	WO	00/60108	✓	Caliper Tech. Corp.	10-12-2000		
	AK	WO	00/70080	✓	Caliper Tech. Corp.	11-23-2000		
	AL	WO	94/05414	✓	Regents of the Univ. of California	03-17-1994		
	AM	WO	96/04547	✓	Lockheed Martin Energy Systems, Inc.	02-15-1996		
	AN	WO	97/02357	✓	Affymetrix, Inc.	01-23-1997		
	AO	WO	98/45481		Caliper Tech. Corp.	04-03-1998		
	AP	WO	98/46438		Caliper Tech. Corp.	10-22-1998		
	AQ	WO	98/49548		Caliper Tech. Corp.	11-05-1998		
	AR	WO	99/39190		Signature Bioscience, Inc.	02-01-1999		
	AS	WO	00/45172		Caliper Tech. Corp.	08-03-2000		
	AT	WO	02/22878		Caliper Tech. Corp.	03-21-2002		

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Examiner Name	Unassigned
Attorney Docket Number	01-054310US
Date Submitted	September 19, 2002

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
	AU	Barcelo, F. et al. (1990) "A scanning calorimetric study of natural DNA and antitumoral anthracycline antibiotic-DNA complexes." <u>Chem Biol Interact</u> , 74(3):315-324.	
	AV	Brandts, J. et al. (1990) "Study of strong to ultratight protein interactions using differential scanning calorimetry" <u>Biochem</u> 29:6927-2940.	
	AW	Brandts, J. et al., (1990) <u>American Laboratory</u> , 22:3041+.	
	AX	Chavan, A. et al., (1994) "Interaction of nucleotides with acidic fibroblast growth factor (FGF-1)" <u>Biochem</u> , 33(23):7193-7202	
	AY	Checovich et al. (1995), "Fluorescence polarization- a new tool for cell and molecular biology" (product review, <u>Nature</u> 375:354-256.	
	AZ	Clegg, R. et al. (1994) "Observing the helical geometry of double-stranded DNA in solution by fluorescence resonance energy transfer." <u>Proc Natl Acad Sci USA</u> 90(7):2994-2998.	
	BA	Dandliker and de Saussure (1970) (Review Article) "Fluorescence polarization in immunochemistry" <u>Immunochemistry</u> 7:799.	
	BB	Dandliker and Feigen (1961), "Quantification of the antigen-antibody reaction by the polarization of fluorescence" <u>Biochem Biophys Res Commun</u> 5:299.	
	BC	Dandliker W. B., et al. (1973), "Fluorescence polarization immunoassay. Theory and experimental method" <u>Immunochemistry</u> 10:219.	
	BD	Devlin et al. (1993), "Homogeneous detection of nucleic acids by transient-state polarized fluorescence" <u>Clin Chem</u> 39:1939.	
	BE	Gonzalez, M. et al., (1997) "Interaction of Biotin with Streptavidin", <u>J Biol Chem</u> , 272(17):11288-11294	
	BF	Haugland (1996) <u>Handbook of Fluorescent Probes and Research Chemicals</u> Published by Molecular Probes, Inc., Eugene, OR; Chapter 13.	
	BG	Hefti, J. et al. "Sensitive detection method of dielectric dispersions in aqueous-based, surface-bound macromolecular structures using microwave spectroscopy" <u>Applied Phys Letters</u> , 75(12):1802-1804.	
	BH	Jiskoot et al. (1991), "Preparation and application of a fluorescein-labeled peptide for determining the affinity constant of a monoclonal antibody-hapten complex by fluorescence polarization" <u>Anal Biochem</u> 196:421	
	BI	Johnson, W. (1990) "Protein Secondary Structure and Circular Dichroism: A Practical Guide" <u>Proteins</u> 7:205-214.	
Examiner Signature			Date Considered

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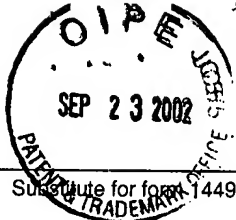


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	Examiner Name	Unassigned
	Attorney Docket Number	01-054310US
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BJ	Kleanthous, C. et al., (1991) "Stabilization of the shikimate pathway enzyme dehydroquinase by covalently bound ligand" <u>J Biol Chem</u> , 266(17):10893-10898
BK	Kopp, M. et al. (1998) "Chemical amplification: continuous-flow PCR on a chip" <u>Science</u> 280(5366):1046-1048.
BL	Kumke et al. (1995), "Hybridization of fluorescein-labeled DNA oligomers detected by fluorescence anisotropy with protein binding enhancement" <u>Anal Chem</u> 67(21):3945-3951.
BM	Lee, M. et al., (1993) "In vitro cytotoxicity of GC sequence directed alkylating agents related to distamycin" <u>J Med Chem</u> 36(7):863-870.
BN	Levison S. A., et al. (1976), "Fluorescence polarization measurement of the hormone-binding site interaction" <u>Endocrinology</u> 99:1129.
BO	Morton, A. et al., (1995) "Energetic origins of specificity of ligand binding in an interior nonpolar cavity of T4 lysozyme." <u>Biochem</u> , 34(27):8564-8575
BP	Murakami et al. (1991). "Fluorescent-labeled oligonucleotide probes detection of hybrid formation in solution by fluorescence polarization spectroscopy" <u>Nuc Acids Res</u> 19:4097.
BQ	Nikiforov and Jeong "Detection of Hybrid Formation between Peptide Nucleic Acids and DNA by Fluorescence Polarization in the Presence of Polylysine" (1999) <u>Analytical Biochemistry</u> 275:248-253.
BR	Ory, J. et al. (1999) "Studies of the Ligand Binding Reaction of Adipocyte Lipid Binding Protein Using the Fluorescent Probe 1,8-Anilidonaphthalene-8-Sulfonate" <u>Biophys</u> 77:1107-1116.
BS	Pilch, D. et al., (1994) "Ligand-induced formation of nucleic acid triple helices." <u>Proc Natl Acad Sci USA</u> , 91(20):9332-9336.
BT	Ropson, I. et al. (1997) "Fluorescence spectral changes during the folding of intestinal fatty acid binding protein" <u>Biochem</u> , 36(38):8594-8601.
BU	Schellman, J. (1975) <u>Biopolymers</u> , 14:999-1018.
BV	Schellman, J. (1976) <u>Biopolymers</u> , 15:999-1000.
BW	Schonbrunn, E. et al. (2000) "Structural basis for the interaction of the fluorescence probe 8-anilino-1-naphthalene sulfonate (ANS) with the antibiotic target MurA" <u>Proc Natl Acad Sci USA</u> 97(12):6345-6349.
BX	Selvin, P. (2000) "The renaissance of fluorescence resonance energy transfer" <u>Nat Struct Biol</u> 7(9):730-734.
BY	Tyagi, S. et al. (1996) "Molecular beacons: probes that fluoresce upon hybridization" <u>Nat Biotech</u> 14:303-308.
BZ	Tyagi, S. et al. (1998) "Multicolor molecular beacons for allele discrimination" <u>Nat Biotech</u> 16:49-53.

Examiner Signature		Date Considered	
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	First Named Inventor	Steven A. Sundberg
	Group Art Unit	1743
	Examiner Name	Unassigned
	Attorney Docket Number	01-054310US
Date Submitted	September 19, 2002	

CA	Walker, J. et al. (1996), "Strand displacement amplification (SDA) and transient-state fluorescence polarization detection of <i>mycobacterium tuberculosis</i> DNA" <u>Clinical Chemistry</u> 42(1):9-13.	
CB	Weber, P. et al., (1994) "Structure-based design of Synthetic Azobenzene Ligands for Streptavidin" <u>J Am Chem Soc</u> 16:2717-2724.	
CC	Wei and Herron (1993), "Use of synthetic peptides as tracer antigens in fluorescence polarization immunoassays of high molecular weight analytes" <u>Anal Chem</u> 65:3372.	
CD	Woody, R. (1985) "Circular Dichroism of Peptides" in <u>The Peptides</u> 7:14-114, Academic Press.	

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